

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

1/14

Figure 1A

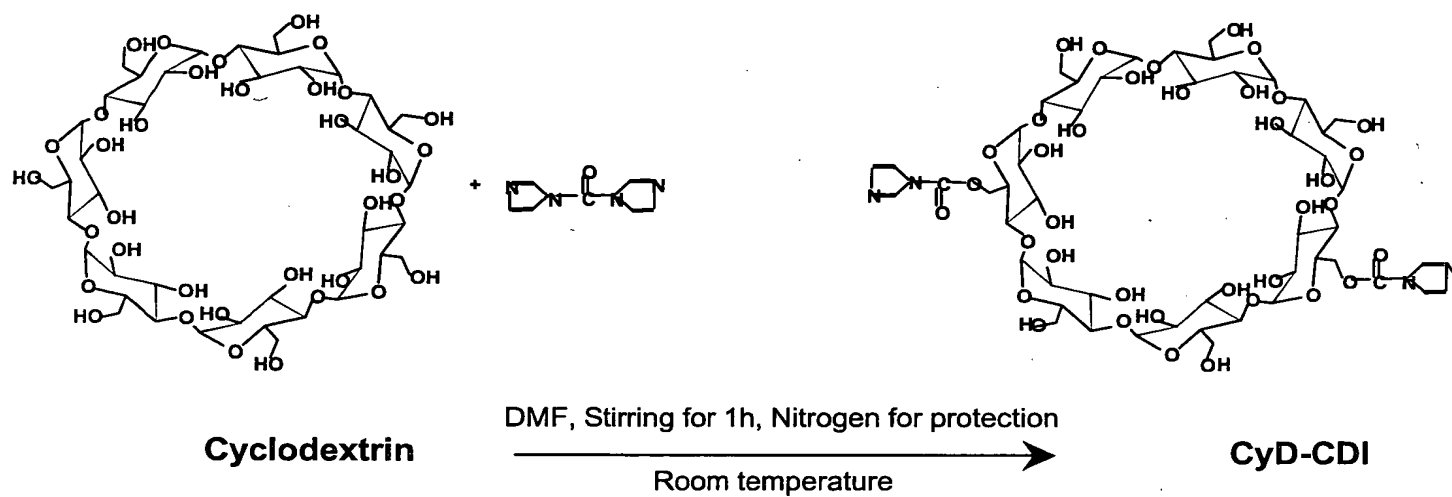
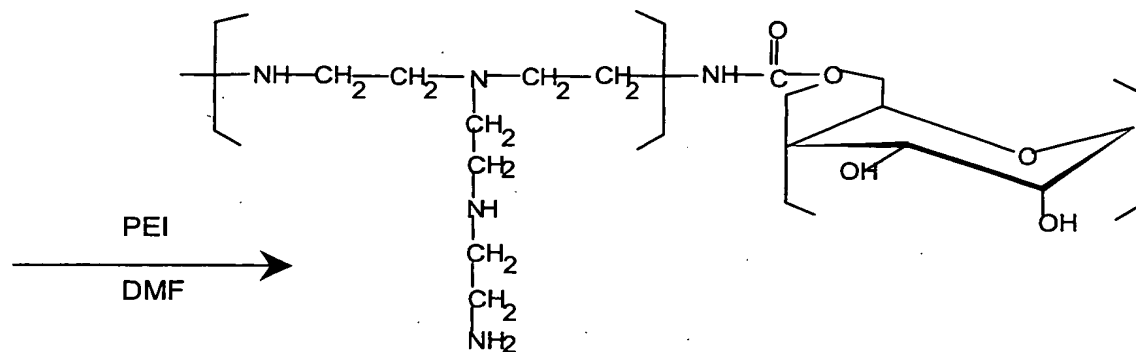
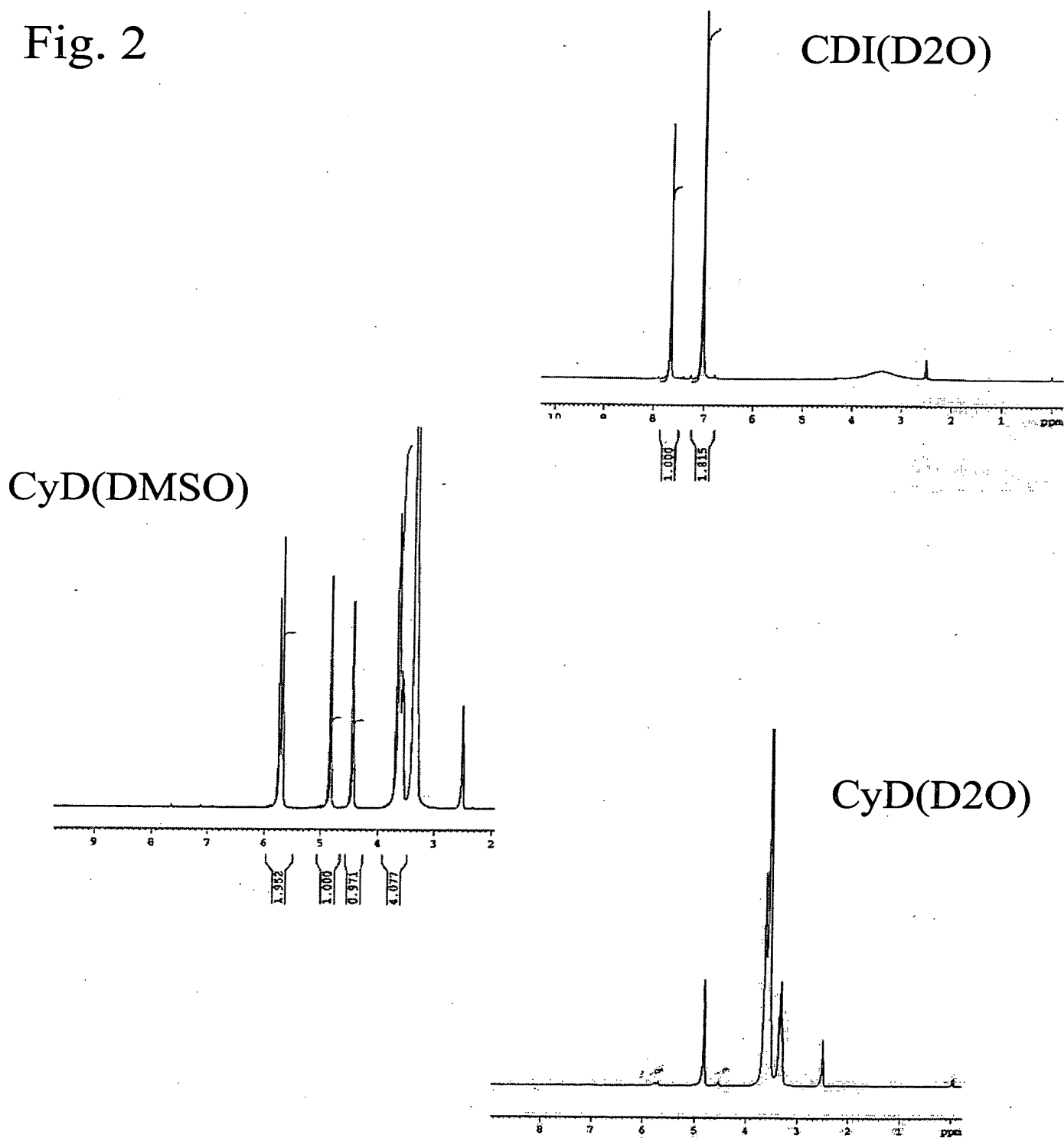


Figure 1B



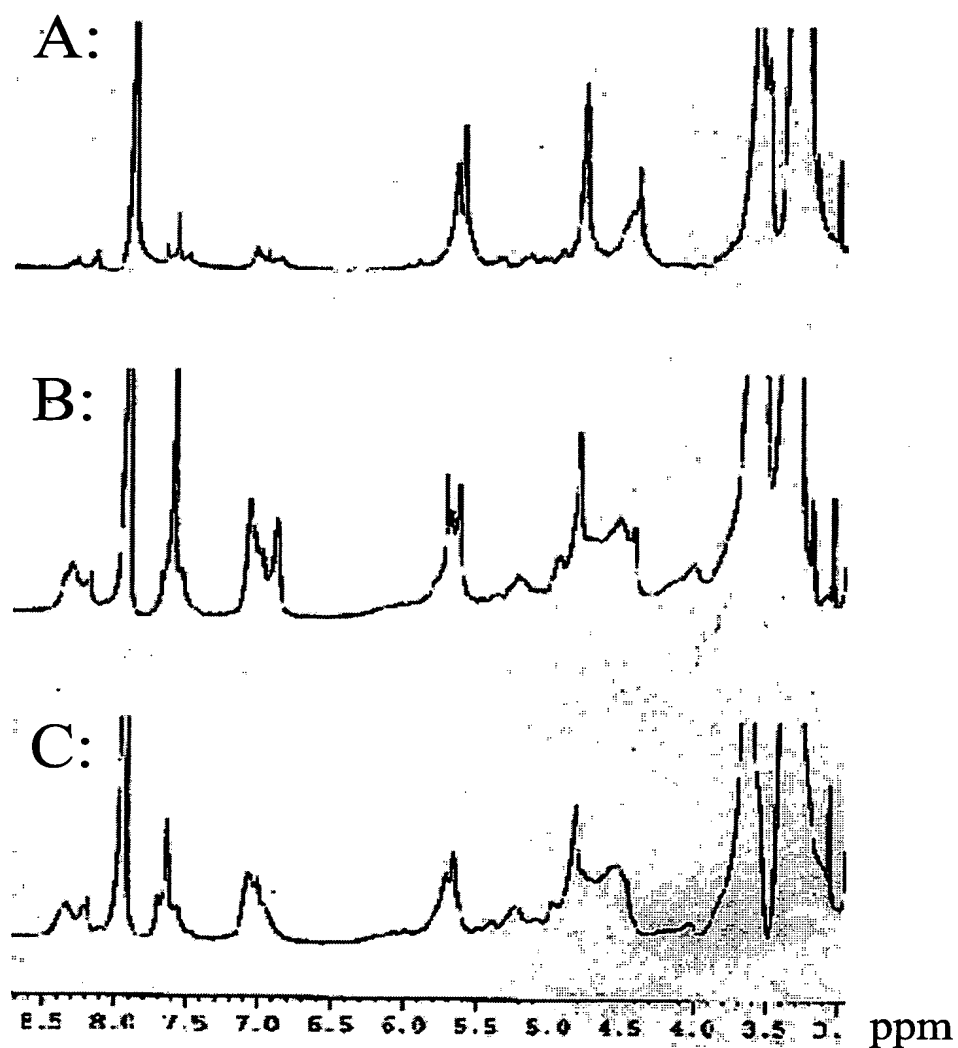
2/14

Fig. 2



3/14

Fig. 3

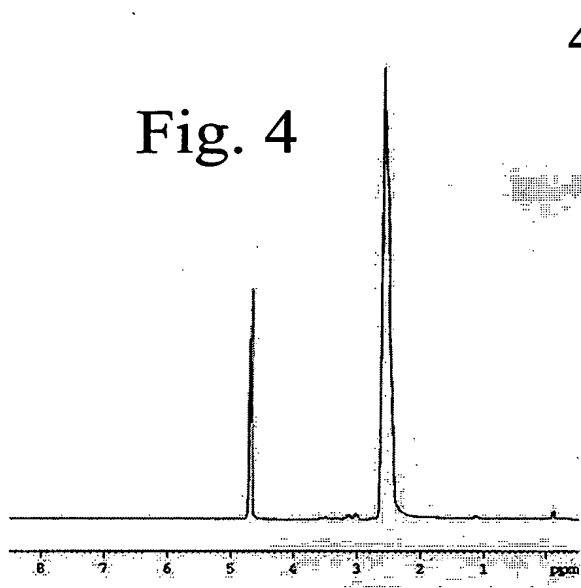


A: CyD:CDI = 1:7.9 (mol/mol)

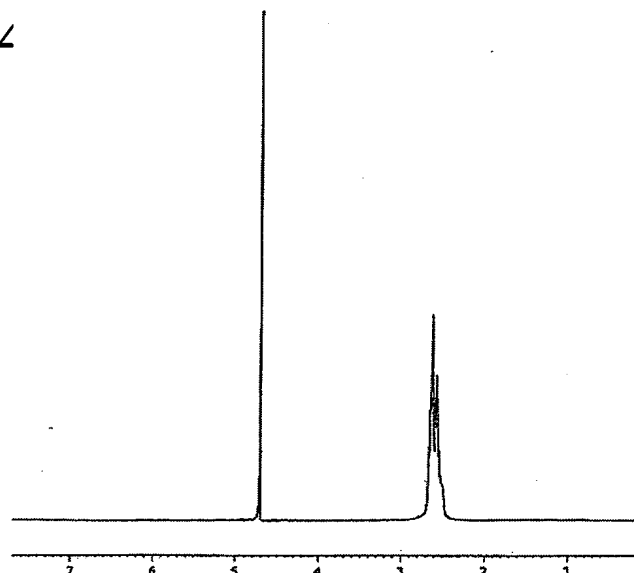
B: CyD:CDI = 1:9.0 (mol/mol)

C: CyD:CDI = 1:11.6 (mol/mol)

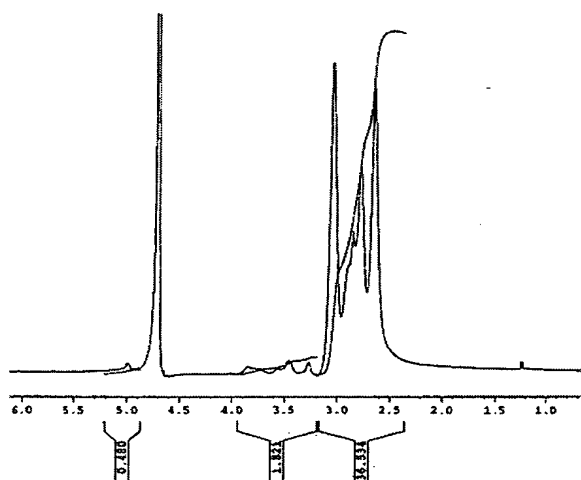
Fig. 4



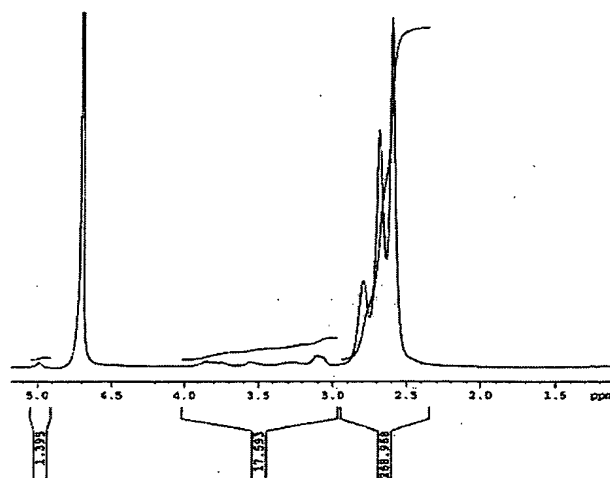
PEI600



PEI2000



PEI600+CyD

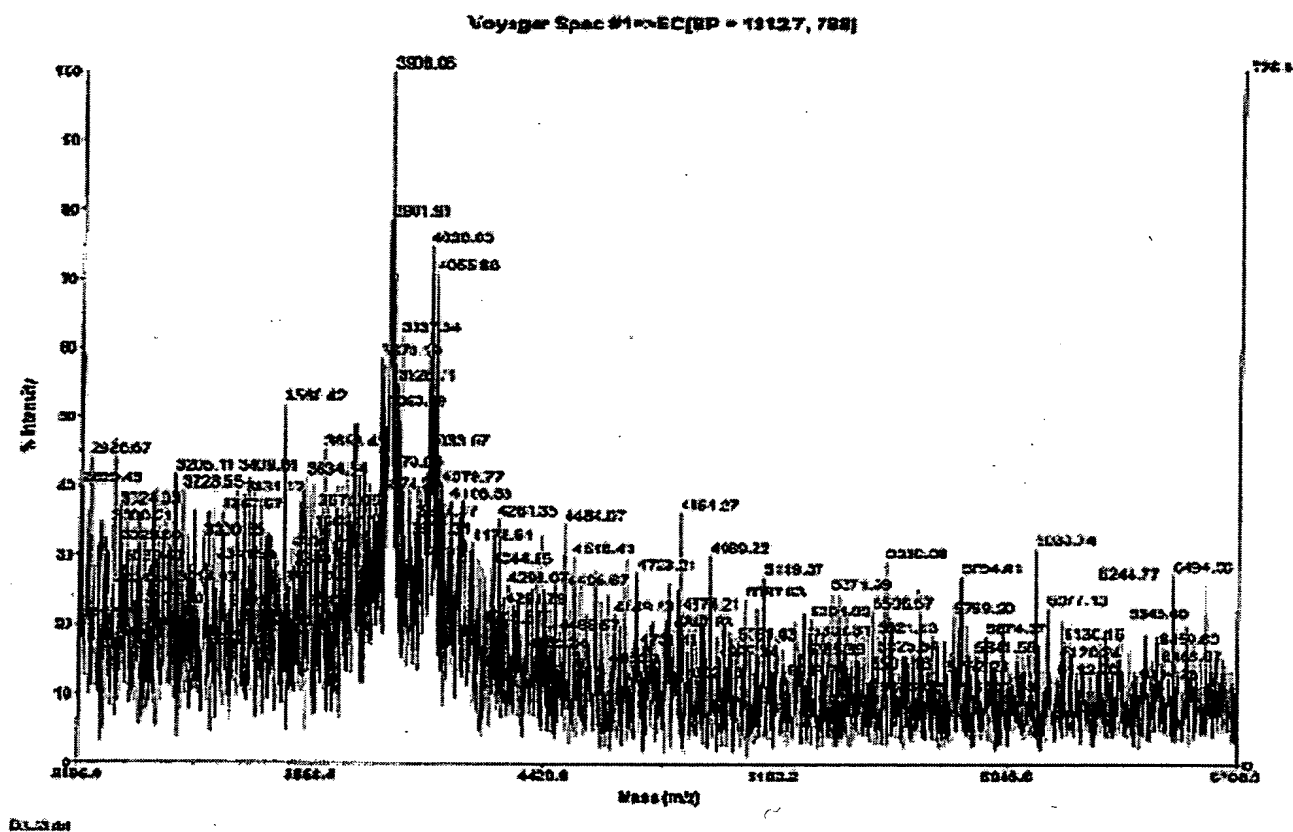


PEI2000+CyD

5/14

Fig. 5

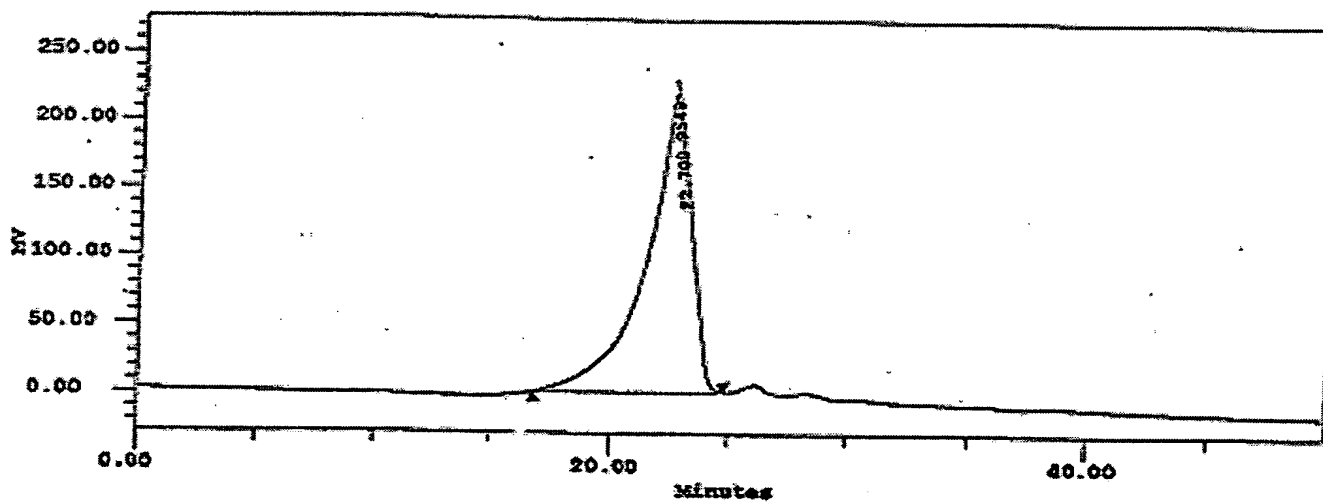
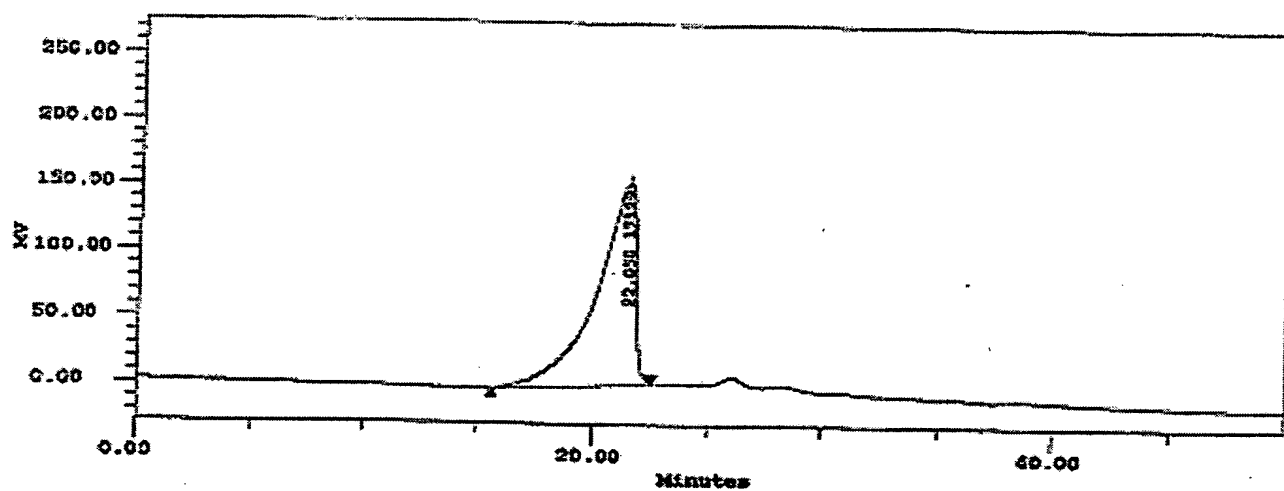
Massspectrum



PEI2000-CyD

6/14




Fig. 6



GPC of PEI600-β-CyD (up) and PEI2000-β-CyD(down)

7/14

Fig. 7

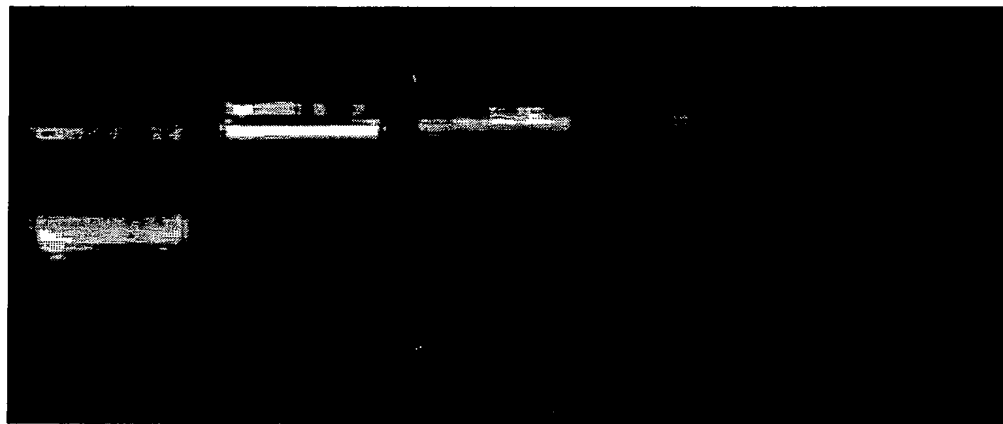
	N/P	0, 0.67, 1.3, 2, 2.7, 3.3
Polymer/Microgram	0	4.5 9 13.5 18 22.5
PEI-CD(MW. 19,166)		
PEI (MW. 2,000)		
PEI (MW. 25,000)		

Agrose electrophoresis assay of PEI2000-CyD/DNA complex

8/14

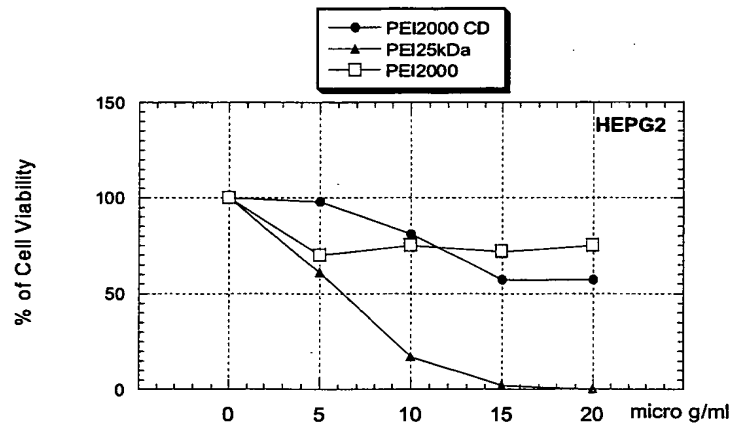
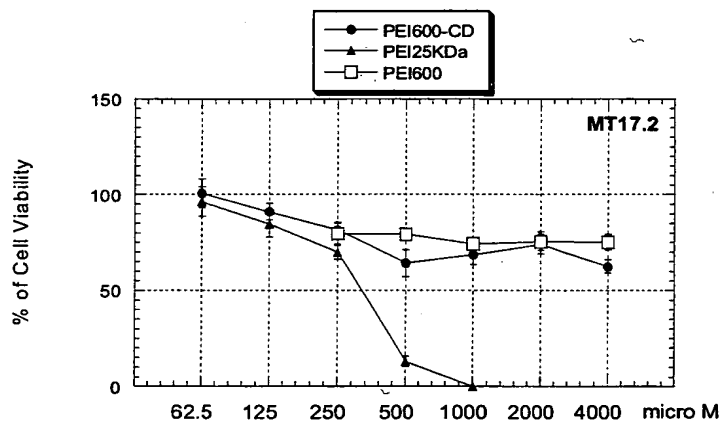
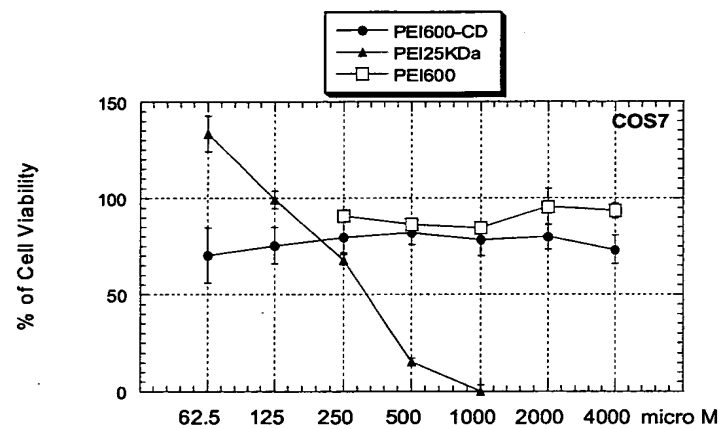
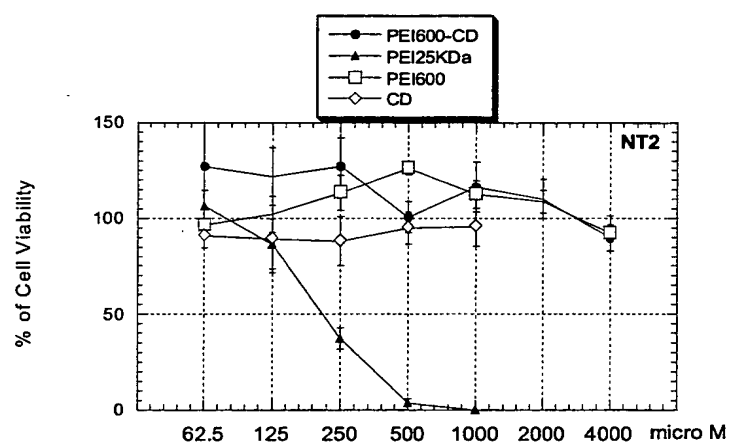
Fig. 8

W/W DNA 2.5/1 3.7/1 5.0/1 6.2/1



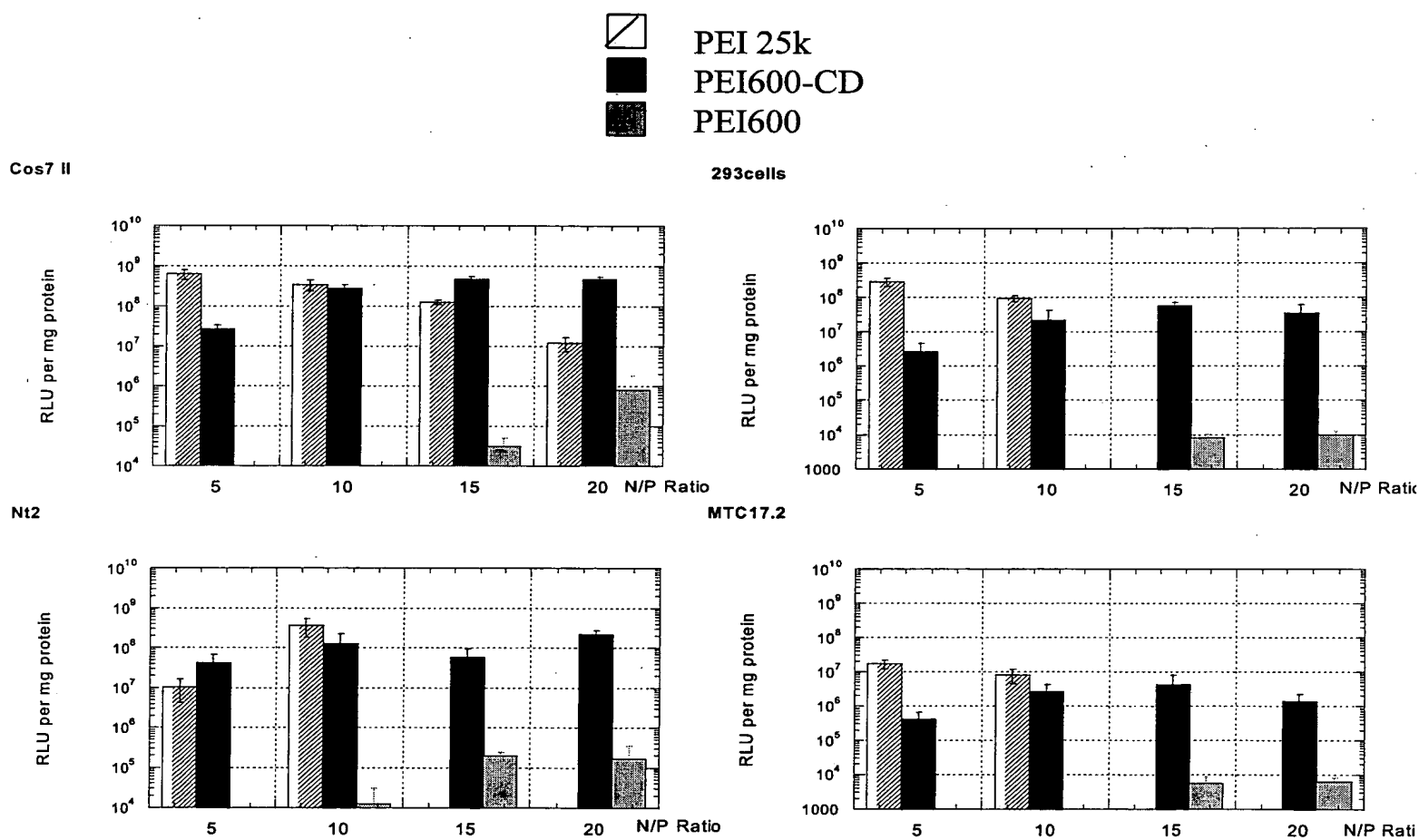
Agarose electrophoresis assay of
PEI600-CyD/DNA complex

Fig. 9



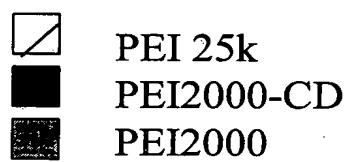
10/14

Fig. 10

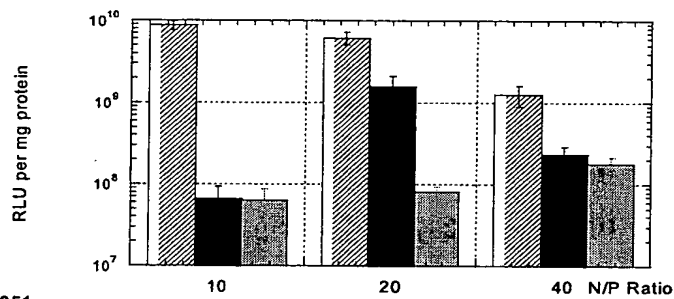


11/14

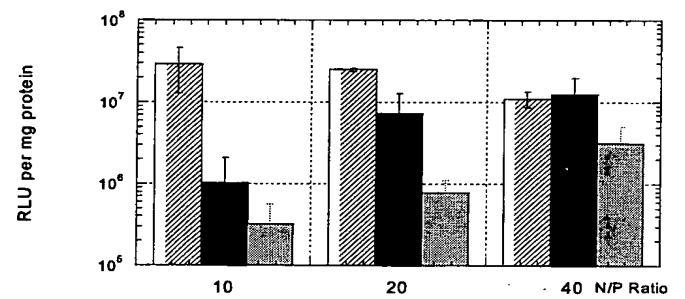
Fig. 11



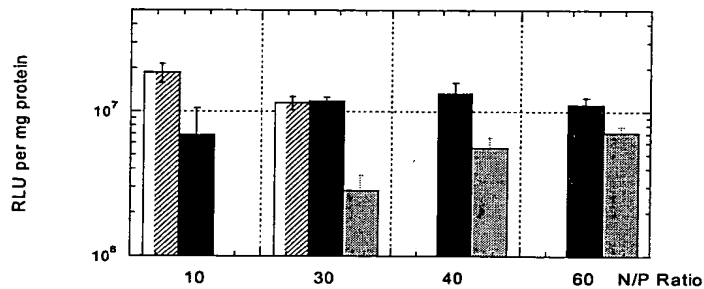
COS7



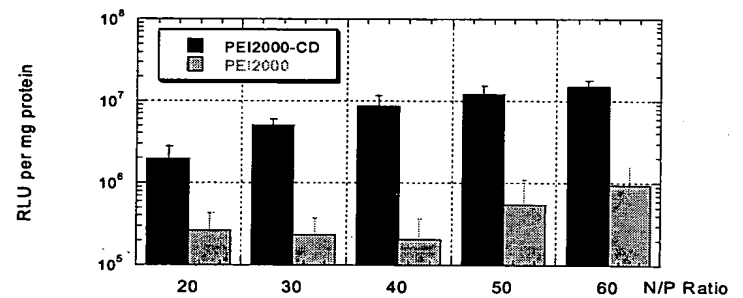
KB3-1



U251



HEPG2



12/14

Fig. 12

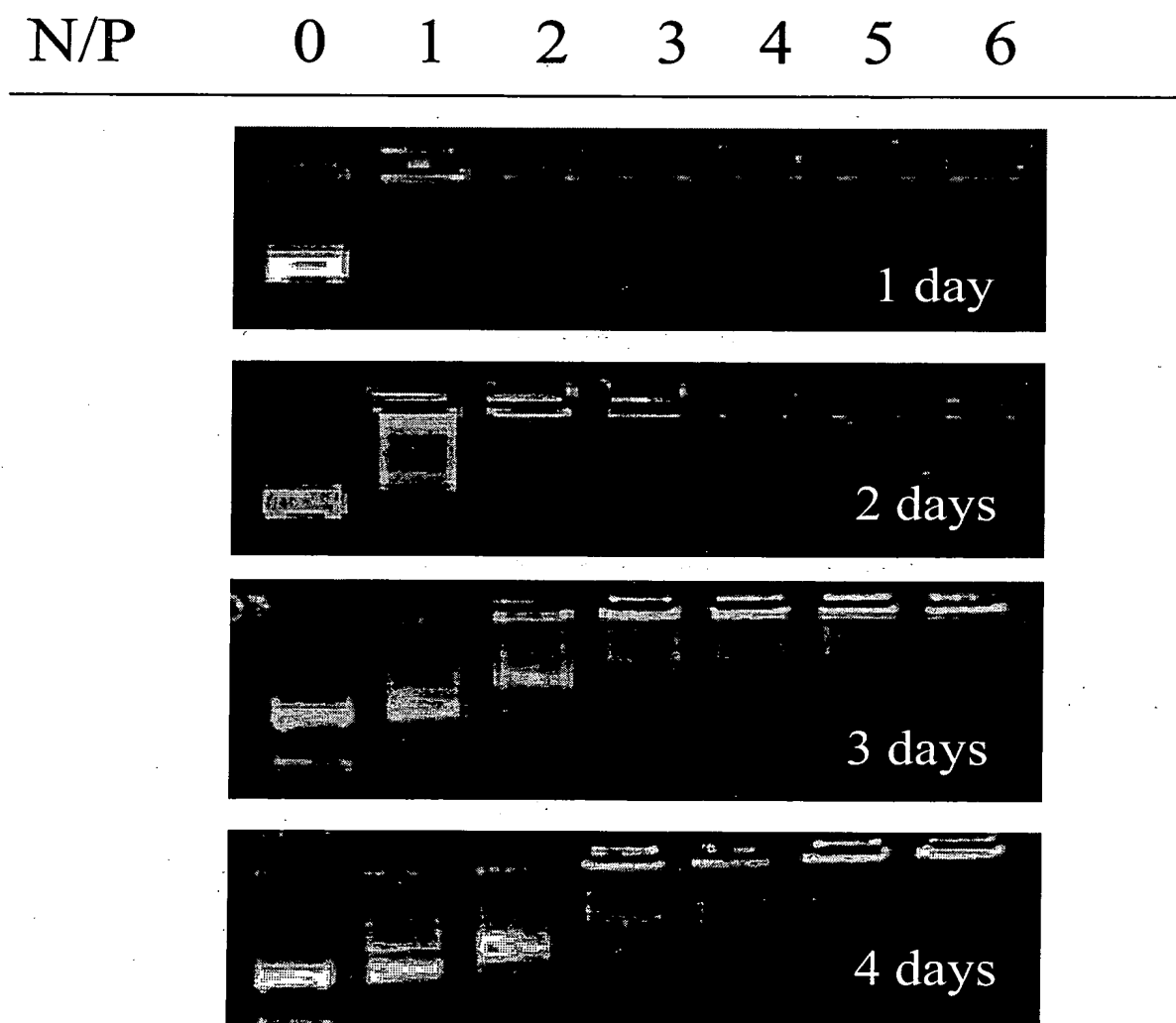
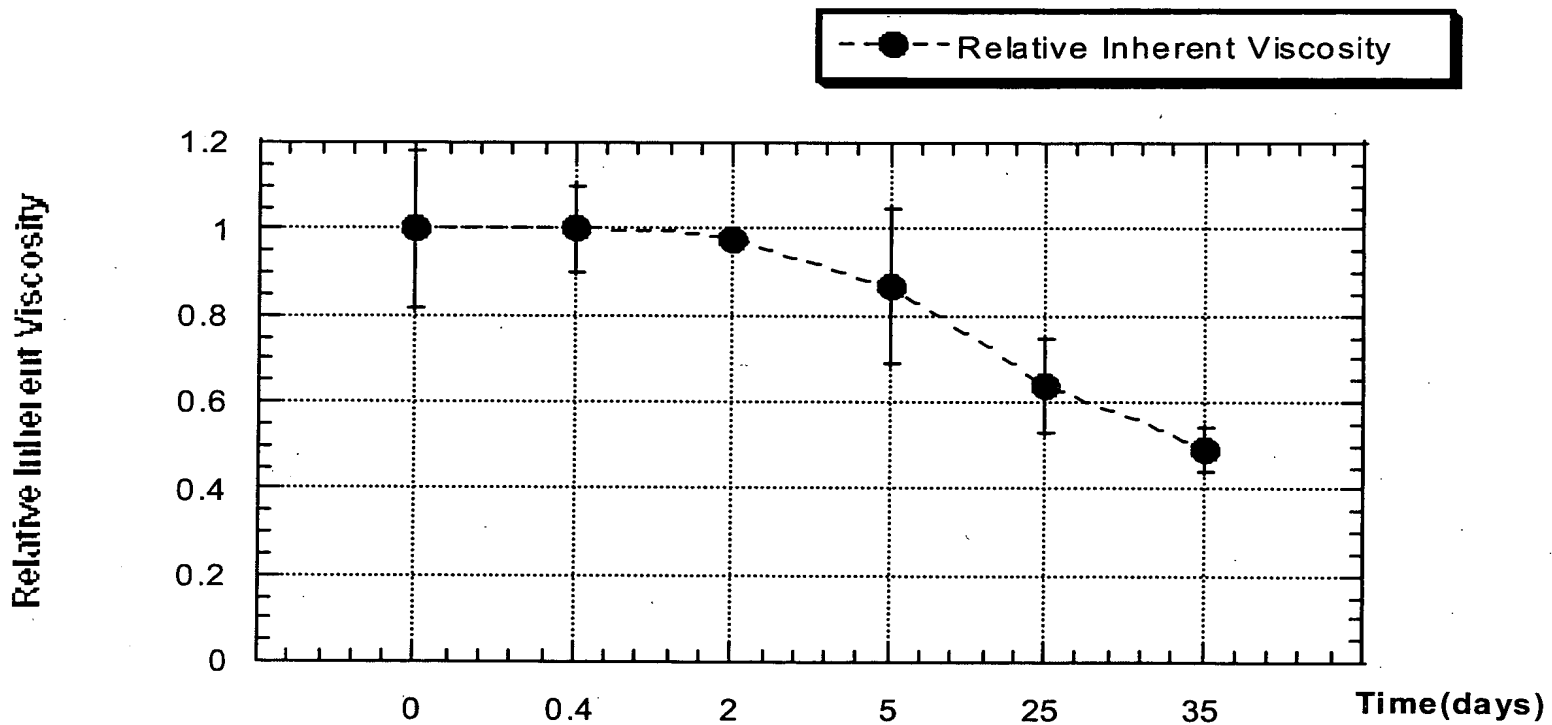


Fig. 13

In vitro degradation of copolymer PEI600-CyD as measured by viscosity analysis



14/14

Fig. 14

